

TOWNSHEND
1024-034
1-5

#3

FIGURE 1a

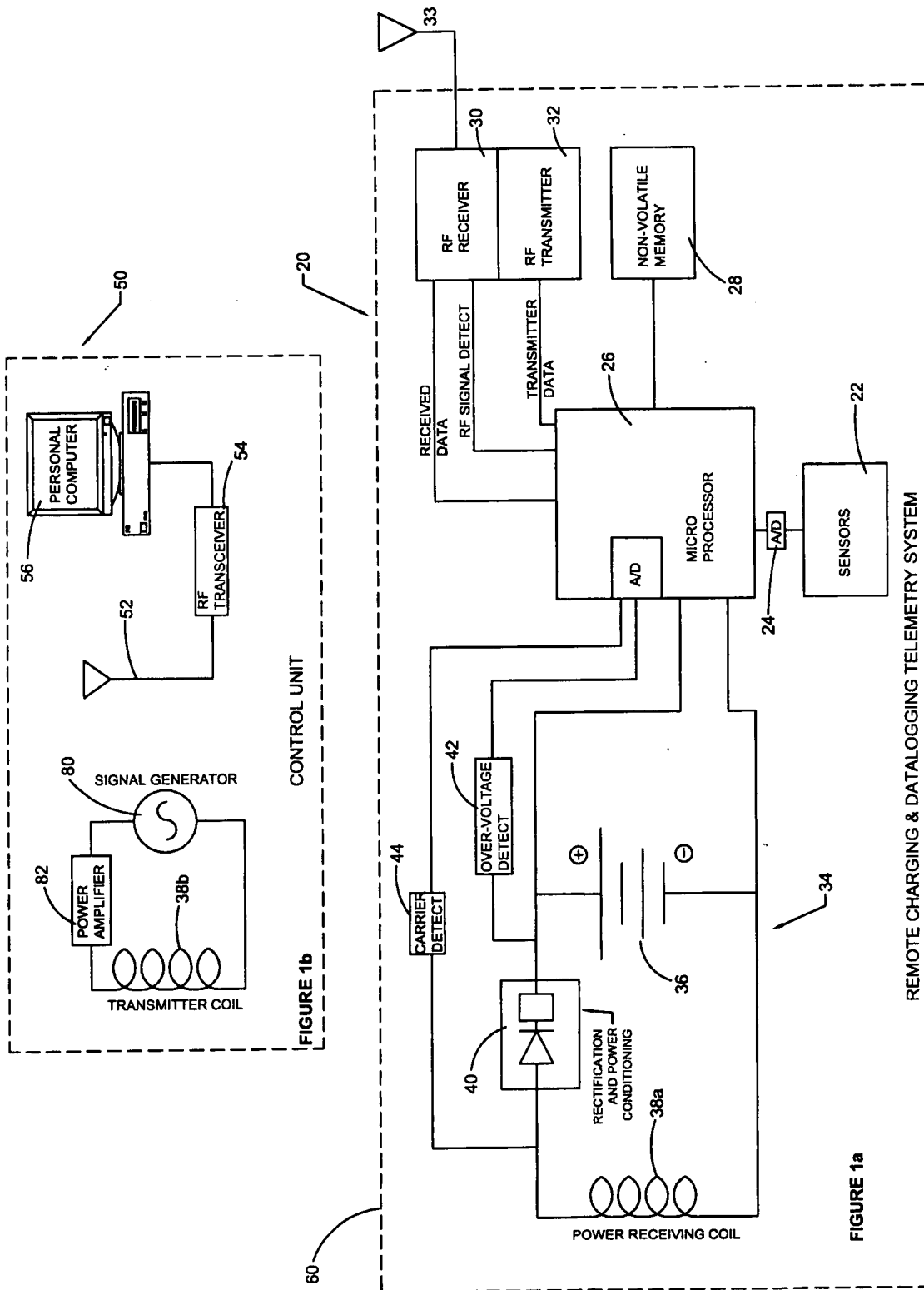
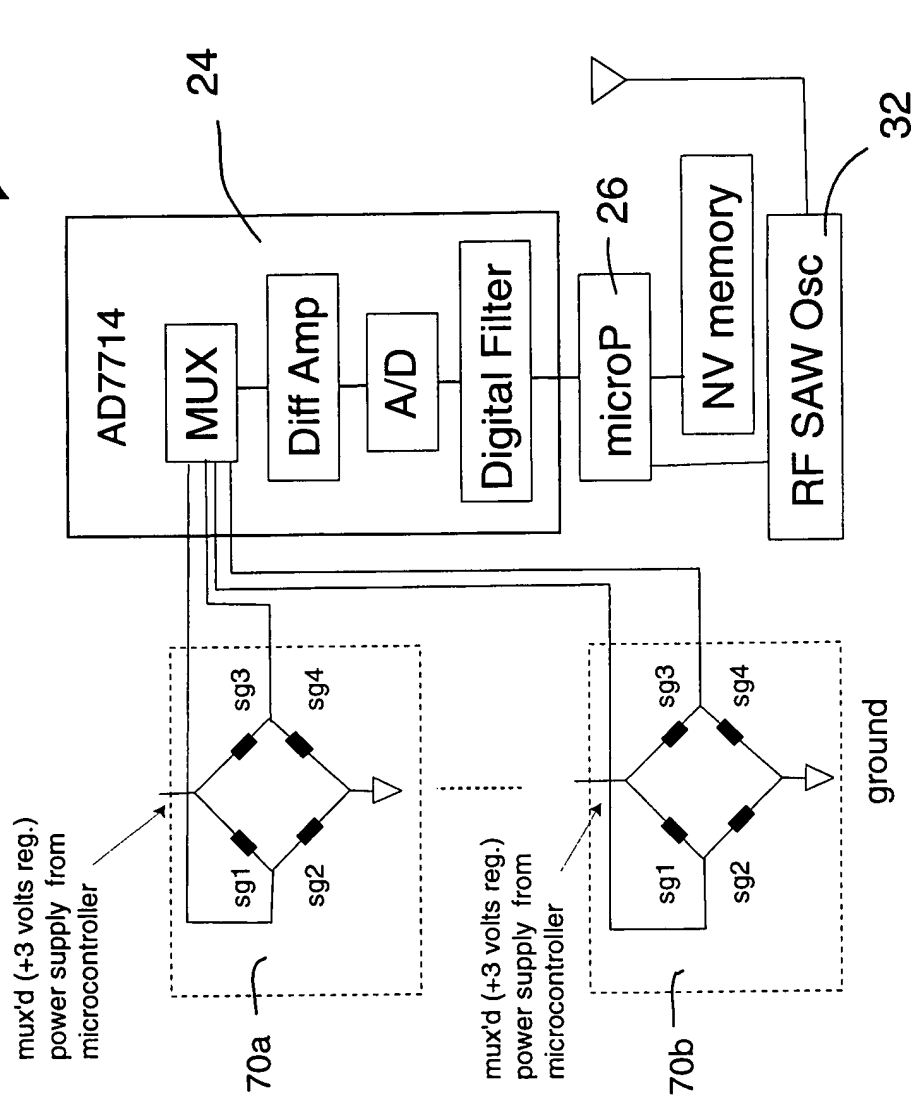
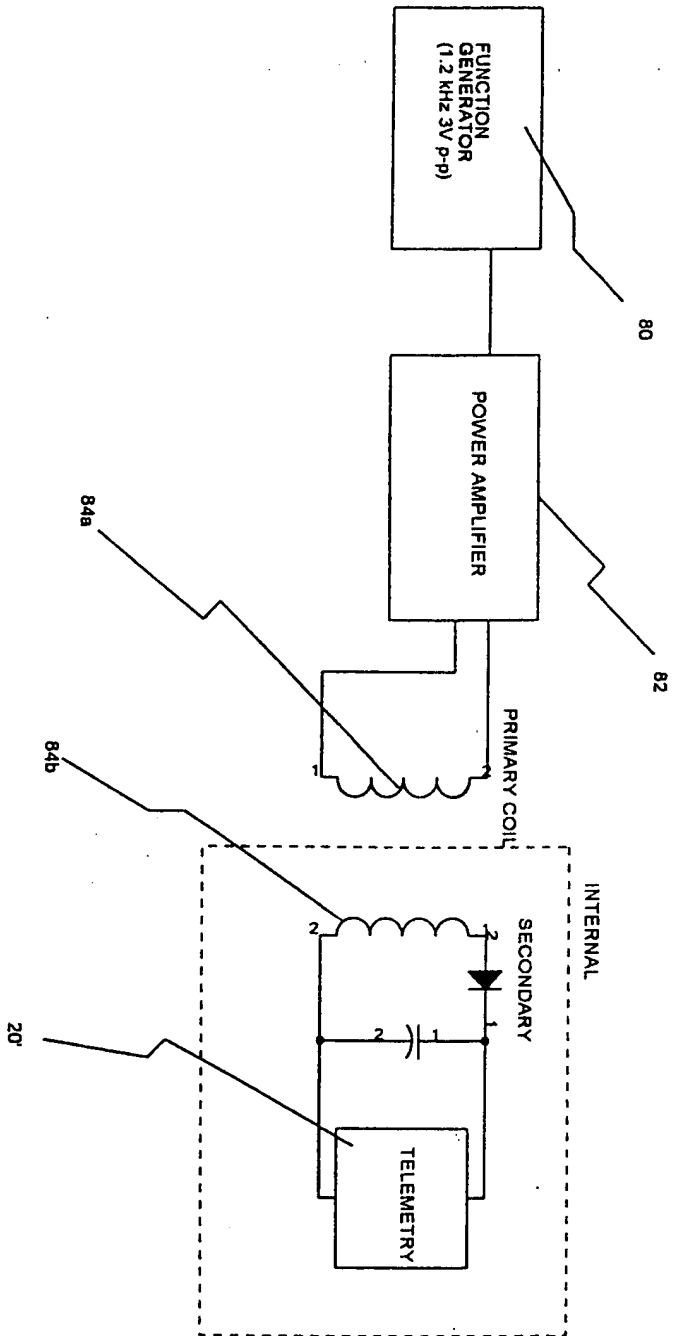


FIGURE 2.



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FIGURE 3



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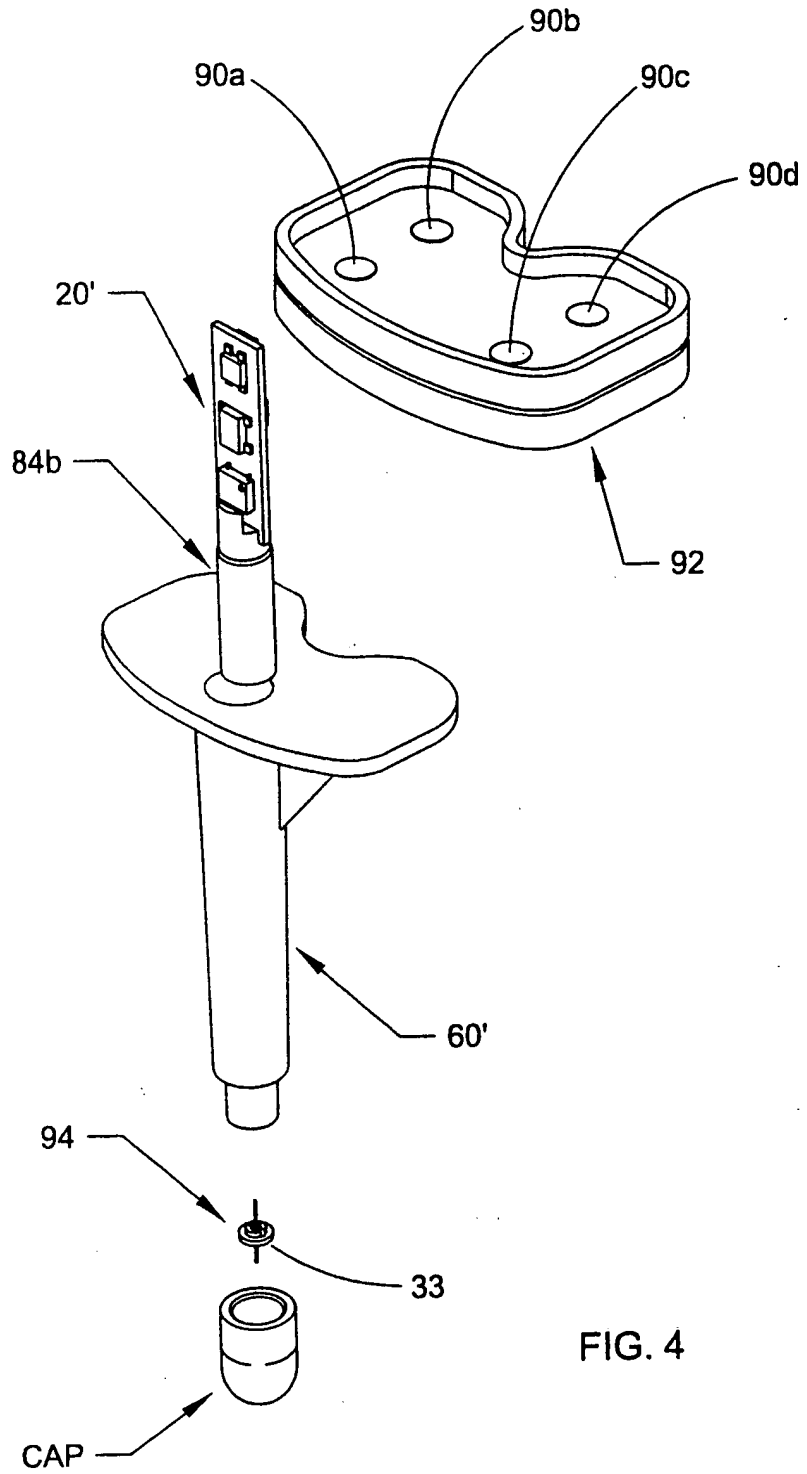


FIG. 4

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FIGURE 5

PARAMETER/ SENSOR + TYPE	Typical Sensor Power Consumption	Typical gain range requirement	StrainLink-DC Compatible	StrainLink- AC Compatible
TEMPERATURE <i>Thermocouple</i>	0	128	YES	NO
TEMPERATURE <i>Thermistor</i>	5 mW	32-64	YES	NO
TEMPERATURE <i>RTD</i>	5 mW	32-64	YES	NO
STRAIN <i>Foil Strain Gauge Bridge</i>	10 mW-30mW	128 Minimum	YES	NO
STRAIN <i>Semiconductor Strain Gauge Bridge</i>	0.5 mW- 5 mW	32-128	YES	NO
STRAIN <i>Capacitive Strain Gauge</i>	<5 mW	128	NO	YES
FORCE <i>Force Sensing Resistor</i>	<1 mW	1	YES	NO
FORCE <i>Foil Strain Gauge</i>	10mW - 30mW	128 Minimum	YES	NO
PRESSURE <i>MEMS Piezoresistive Pressure Sensor</i>	0.5 mW- 5 mW	32-128	YES	NO
ACCELERATION <i>Piezoelectric Accelerometer</i>	0	64 - 128	YES	NO
ACCELERATION <i>MEMS Piezoresistive Accelerometer</i>	0.5 mW- 5 mW	32-128	YES	NO
MAGNETIC FIELD <i>Magnetoresistance</i>	1mW-25 mW	32-128	YES	NO
MAGNETIC FIELD <i>Hall Effect</i>	10 mW - 25 mW	16-64	YES	NO
ROTARY <i>Potentiometer</i>	<1 mW	1	YES	NO
HUMIDITY <i>Capacitive</i>	<10mW	64-128	NO	YES
CRACK PROPAGATION <i>Resistive</i>	<10mW	16-64	YES	NO
DISPLACEMENT <i>DVRT /LVDT</i>	10mW-25mW	128	NO	YES
DISPLACEMENT <i>Potentiometer</i>	<1mW	1	YES	NO
DISPLACEMENT <i>Non-Contact Inductive</i>	10 mW-25 mW	128	NO	YES
LIGHT INTENSITY <i>Silicon Photodetector</i>	<1mW	64-128	YES	NO
VELOCITY- DVRT	0 mW	64-128	YES	NO

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